

FIG. 1

HindIII

pKK223-3 TTCACACAGGAACAGAAATTCCTGGGATCCGTCGACCTGCAGCCAAAGCTT

SEQ ID NO.:285

pKK223-3N TTCACATAAGGAGGAAAAAaccatggGATCCG-----AAGCTT

NcoI

SEQ ID NO.:286

FIG. 2A

Cloning Step 1

I N A N P N A N P N A N P N A N P E L
A ATT AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG GAG CT
TTG CGA TTA GGC TTG CGA TTA GGC TTG CGA TTA GGC TTG CGA TTA GGC C

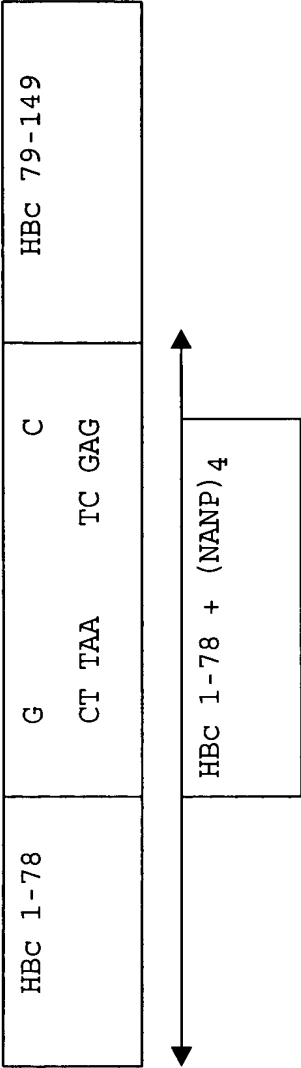


FIG. 2B

Cloning Step 2

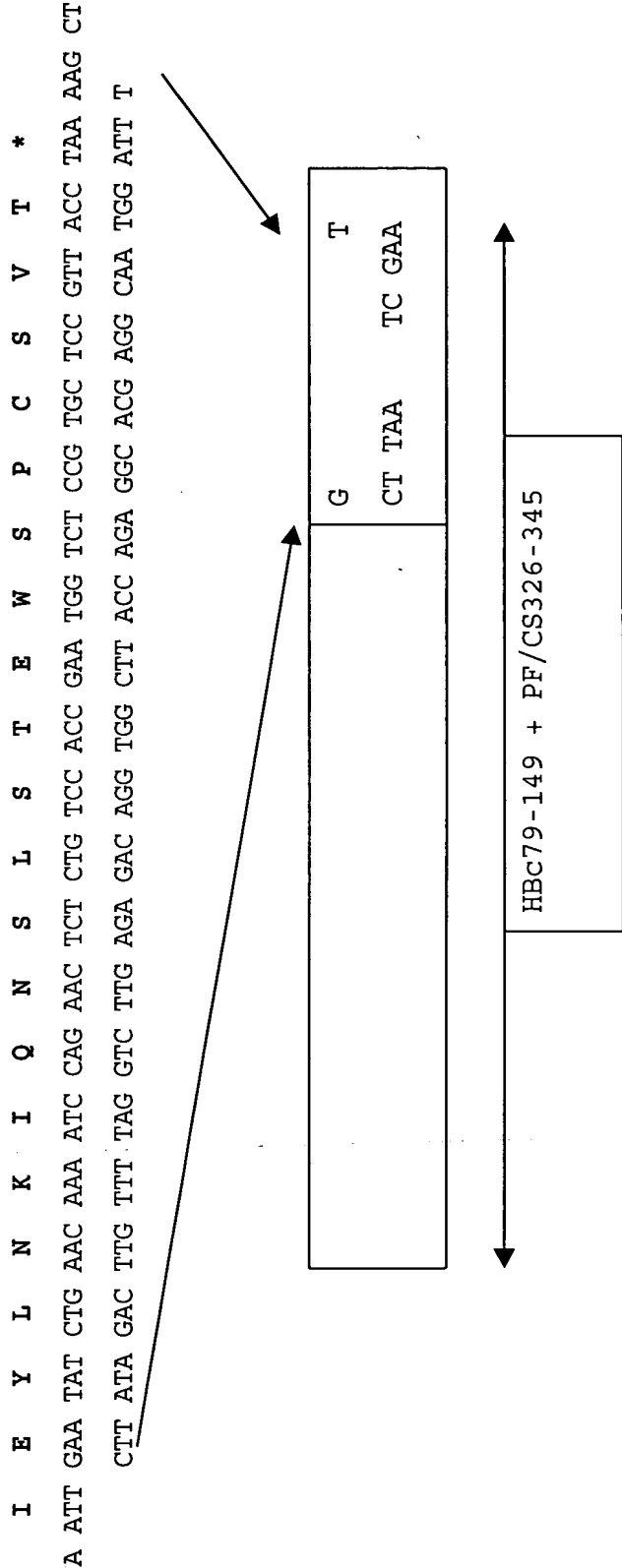


FIG. 2C

Cloning Step 3

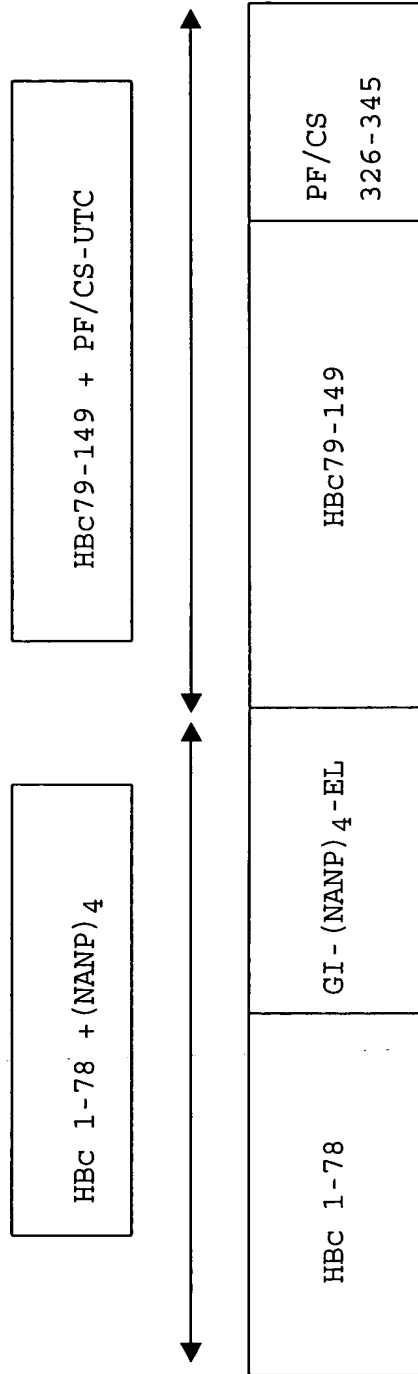


FIG. 3

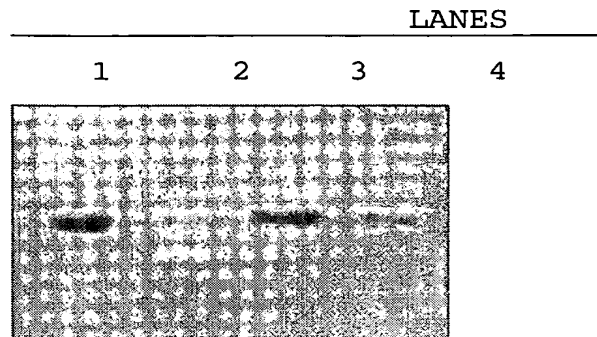
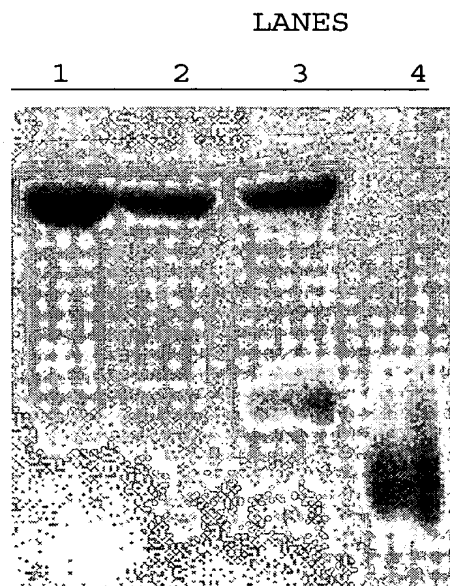


FIG. 4



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FIG. 5

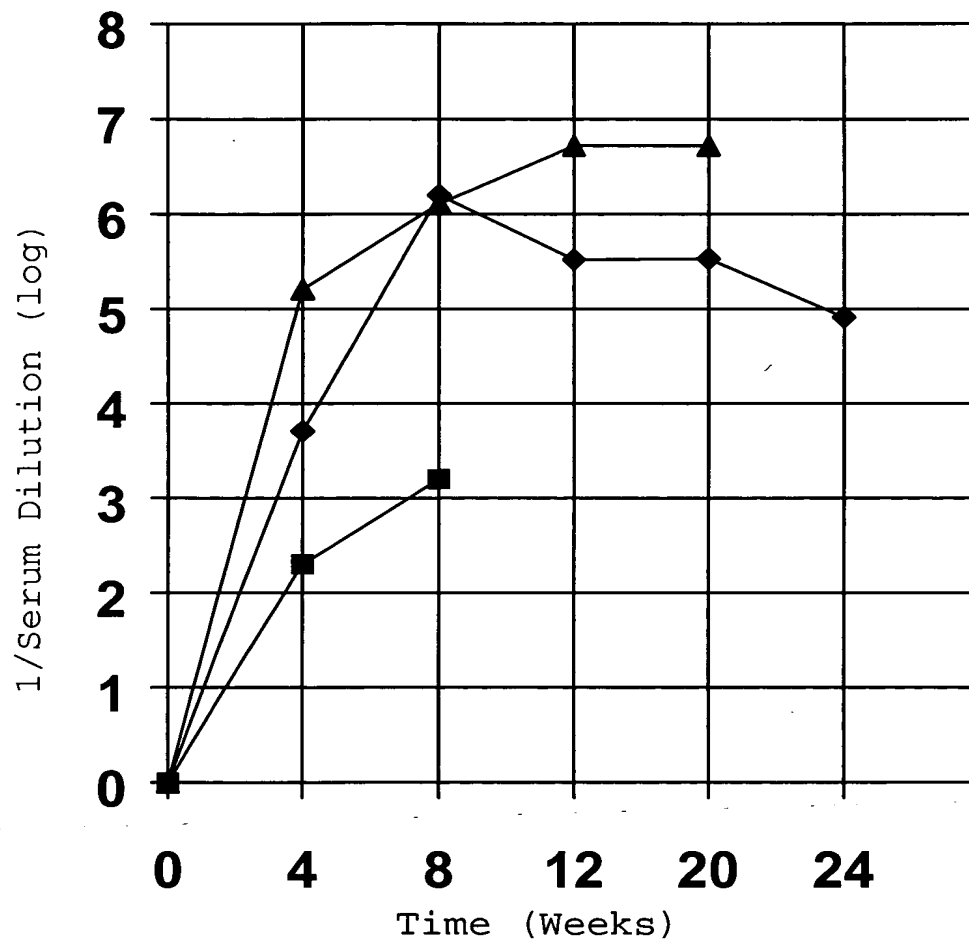
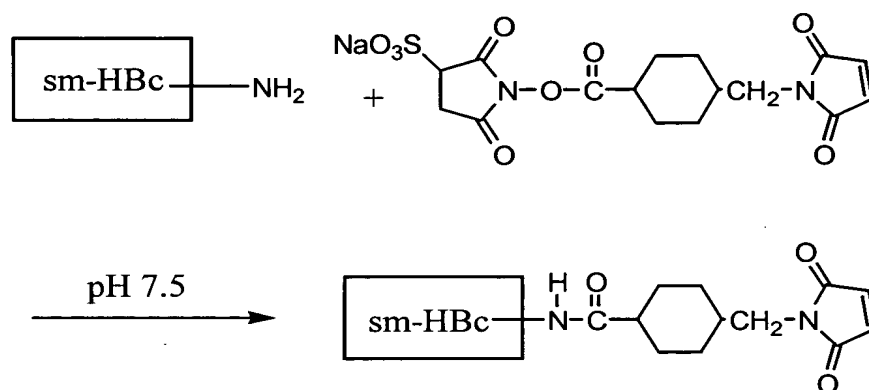


FIG. 6

Scheme 1

I



II

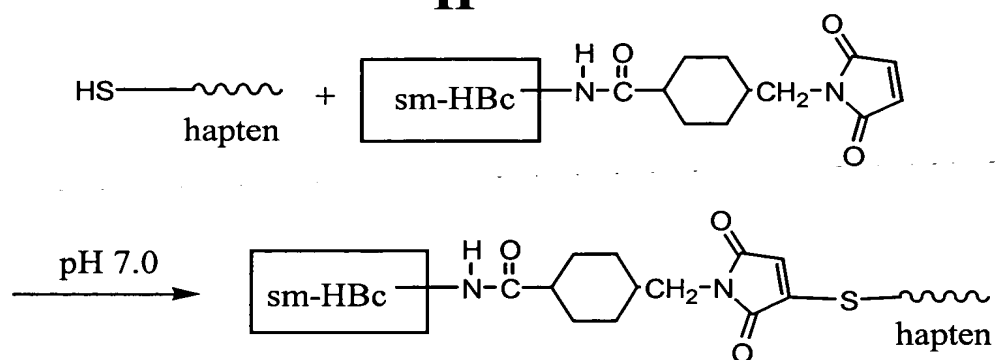


FIG. 7A

Ground Squirrel	mylfhlclvf acvpctvqa sklclglwd
1	
HBc AYW	mdidpykefg atvellsflp sdffpsvrdl ldtasalyre
HBc ADW	mdidpykefg atvellsflp sdffpsvrdl ldtasalyre
HBc ADW2	mdidpykefg atvellsflp sdffpsvrdl ldtasalyre
HBc ADYW	mdidpykefg atvellsflp sdffpsvrdl ldtaaalrdr
Woodchuck	mdidpykefg ssyqlnflp ldffpdlnal vdtatalyee
Ground Squirrel	mdidpykefg ssyqlnflp ldffpdlnal vdtaaalyee
41	
HBc AYW	alespehcsp hhtalrqail cwgelmtlat wvgvnledpa
HBc ADW	alespehcsp hhtalrqail cwgelmtlat wvgnnlqdp
HBc ADW2	alespehcsp hhtalrqail cwgelmtlat wvgnnledpa
HBc ADYW	alespehcsp hhtalrqail cwgdlnmtlat wvgtnledpa
Woodchuck	eltgrehcsp hhtairqalv cwdeitklia wmsnitseq
Ground Squirrel	eltgrehcsp hhtairqalv cweeltrlit wmsntteev

FIG. 7B

81		srdlvsvyvn	tnmglkfrql	lwfhiscldtf	gretvleylv
HBC AYW					
HBC ADW		srdlvvnyvn	tnmglkirql	lwfhiscldtf	gretvleylv
HBC ADW2		srdlvvnyvn	tnvglkirql	lwfhiscldtf	gretvleylv
HBC ADYW		srdlvsvyvn	tnvglkfrql	lwfhiscldtf	gretvleylv
Woodchuck		vrtiivnhvn	dtwglkvrqs	lwfhiscldtf	gqhtvqeflv
Ground Squirrel		rriivdhvnn	twglkvrqtl	wfhiscldtf	qhtvqeflvs
121					
HBC AYW		sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
HBC ADW		sfgvwirtpp	ayrppnapil	stlpettvvr	rrdrgsprrr
HBC ADW2		sfgvwirtpp	ayrppnapil	stlpettvvr	rrdrgsprrr
HBC ADYW		sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
Woodchuck		sfgvwirtpp	pyrppnapil	stlpettvir	rrggarasrs
Ground Squirrel		fgvwirtpap	yrppnapils	tlpehtvirr	rggsraarsp
161					
HBC AYW		psprrrrsqs	prrrrsqsre	sqc	
HBC ADW		rtpsprrrrs	qsprrrrsqs	resqc	
HBC ADW2		rtpsprrrrs	qsprrrrsqs	resqc	
HBC ADYW		psprrrrsqs	prrrrsqsre	sqc	
Woodchuck		prrrtsprrr	rrsqsprrrr	sqc	
Ground Squirrel		rrrrtsprrr	rrsqsprrrr	qspasnc	

FIG. 8

<u>V12.Pf1</u>			<u>V12.Pf1 (C17A) C150</u>		
<u>DAYS</u>					
0	7	14	0	7	14

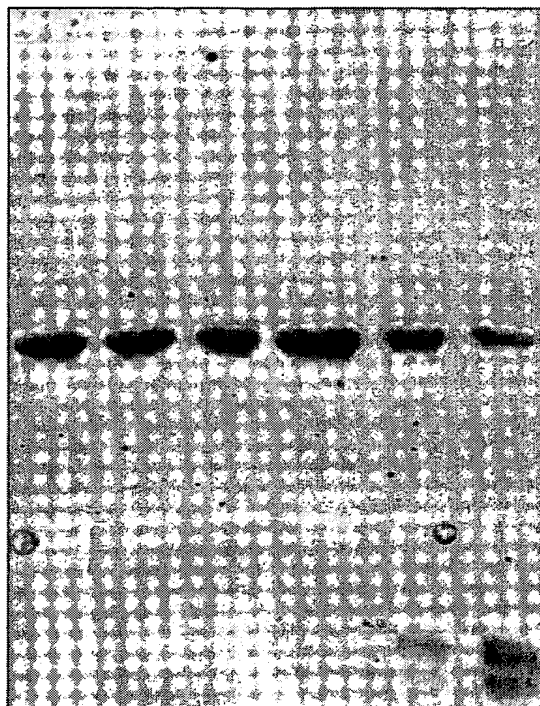


FIG. 9

1 2 3 4 5

